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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re PATENT Application of :
Kangwook Park : Group Art Unit 2818
Application No. 10/829,190 : Examiner Ho, Tu Tu V.
Filed April 22, 2004 :

Title: Bipolar Junction Transistors and Methods of Manufacturing the Same

RESPONSE TO ELECTION/RESTRICTION REQUIREMENT

U.S. Patent and Trademark Office
Customer Service Window, Mail Stop Amendment
Randolph Building
401 Dulany Street
Alexandria VA 22314

Sir:

In response to the Office Action dated November 4, 2005, Applicants elect the alleged species I, illustrated in FIGS. 2 and 3A-3F. The election is partially with traverse. In particular, Applicants contend that FIG. 4 and 5 constitute mutually exclusive and distinct species from FIGS. 2 and 3A-3F.

Specifically, the embodiment of FIG. 4 differs from that of FIG. 2 in that the emitter electrode is only partially single-crystalline in FIG. 4 (it is fully single-crystalline in FIG. 2). See para. [0044] of the present specification. Similarly, the embodiment of FIG. 5 includes a non-single-crystalline portion of the emitter electrode, and additionally adds the feature of a graded impurity concentration.

See para. [0046] and [0047] of the present specification.

Claims 1-2, 4-8, 10, 14-20, 27 and 29-30 read on the alleged species I.

Claims 1-2, 4-8, 14-20, 27 and 29-30 are believed to be generic to all the alleged species I-IV.

Respectfully submitted,

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